

**Notice of Allowance dated 5/16/2005**  
Appl. No. 10/667,801  
Amendment After Allowance dated 5/31/2005  
Attorney Docket No. 3826-031592

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

Claim 1 (Currently Amended): An antenna for transmitting a radio frequency signal, comprising:

a first electrically conductive member;

a second electrically conductive member spaced a first distance apart from said first ~~electronically-electrically~~ conductive member;

an axially extending leg electrically connected to said first electrically conductive member and said second electrically conductive member, said axially extending leg being electrically conductive; and

a metallic cup ~~electronically-electrically~~ coupled to said first ~~electronically-electrically~~ conductive member.

Claim 2 (Previously Presented): An antenna as claimed in claim 1, wherein said first electrically conductive member, said second electrically conductive member, and said axially extending leg are made of metal.

Claim 3 (Previously Presented): An antenna as claimed in claim 1, wherein said first electrically conductive member, said second electrically conductive member, and said axially extending member are made from a unitary sheet of metal.

Claim 4 (Previously Presented): An antenna as claimed in claim 1, wherein said first electrically conductive member has a first arcuate-shaped outer edge and said second electrically conductive member has a second arcuate-shaped outer edge wherein said axially extending member extends from said first arcuate-shaped outer edge to said second arcuate-shaped outer edge.

Claim 5 (Original): An antenna as claimed in claim 4, wherein said first arcuate-shaped outer edge has a first radius extending from a first center point and said second arcuate-shaped outer edge has a second radius extending from a second center point.

Claim 6 (Previously Presented): An antenna as claimed in claim 5, wherein the first center point and the second center point are contained on a centerline, and said first

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electrically conductive member and said second electrically conductive member are contained in a first plane and a second plane wherein the first plane is parallel to the second plane and the centerline is normal to the first plane and the second plane.

**Claim 7 (Previously Presented):** An antenna as claimed in claim 6, wherein said first electrically conductive member has a first surface area and said second electrically conductive member has a second surface area, wherein said first surface area is greater than the second surface area.

**Claim 8 (Previously Presented):** An antenna as claimed in claim 7, wherein said first electrically conductive member and said second electrically conductive member include cut-out sections.

**Claim 9 (Previously Presented):** An antenna as claimed in claim 1, further comprising a cable electrically coupled to said first electrically conductive member and said second electrically conductive member.

**Claim 10 (Original):** An antenna as claimed in claim 9, wherein said cable is coaxial cable.

**Claim 11 (Previously Presented):** An antenna as claimed in claim 1, wherein said first electrically conductive member is spaced apart a distance from said second electrically conductive member and is approximately equal to or a multiple of a wavelength distance of the frequency transmitted from said antenna.

**Claim 12 (Original):** An antenna as claimed in claim 11, wherein said axially extending leg has a length equal to the spaced apart distance.

**Claim 13 (Cancelled)**

**Claim 14 (Previously Presented):** An antenna as claimed in claim 1, wherein said cup includes an opened top structure having a cylindrically-shaped sidewall attached to a bottom wall.

**Claim 15 (Original):** An antenna as claimed in claim 14, wherein a portion of said bottom wall slopes away from the open top portion toward a central axial axis passing through said cup.

**Claim 16 (Original):** An antenna as claimed in claim 15, wherein said portion of said bottom wall is frusta-conical in shape.

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**Claim 17 (Original):** An antenna as claimed in claim 16, wherein said bottom wall further includes a central flat portion connected to an end of the frusta-conical shaped portion.

**Claim 18 (Original):** An antenna as claimed in claim 17, wherein said central flat portion is circular in shape.

**Claim 19 (Previously Presented):** An antenna as claimed in claim 14, wherein said first electrically conductive member comprises a tab extending therefrom contacting said cup.

**Claim 20 (Previously Presented):** An antenna as claimed in claim 14, wherein said first electrically conductive member is spaced a second distance from said bottom wall.

**Claim 21 (Original):** An antenna as claimed in claim 20, wherein the second distance is approximately equal to or a multiple of a wavelength distance of the frequency to be transmitted from the antenna.

**Claim 22 (Currently Amended):** An antenna as claimed in claim 1, further comprising a mechanical register at least partially received between said first electrically conductive member and said second electrically conductive member.

**Claim 23 (Previously Presented):** An antenna as claimed in claim 1, further comprising an electrical frequency generator electrically coupled to said first electrically conductive member.

**Claim 24 (Previously Presented):** An antenna as claimed in claim 23, wherein said frequency generator is electrically coupled to a coaxial cable which is electrically coupled to said first electrically conductive member.

**Claim 25 (Original):** An antenna as claimed in claim 23, further comprising a power source electrically coupled to said frequency generator.

**Claim 26 (Original):** An antenna as claimed in claim 25, wherein said power source is a battery.

**Claim 27 (Original):** An antenna as claimed in claim 23, further comprising a circuit board that includes said frequency generator, said circuit board attached to said first electrically conductive sheet.

**Claim 28 (Previously Presented):** An antenna as claimed in claim 1, further comprising a metallic meter case, said metallic cup received within said metallic meter case.

**Claims 29-65 (Canceled)**

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**Claim 66 (Previously Presented):** An antenna as claimed in claim 1, wherein one of said first electrically conductive member and said second electrically conductive member is an electrically conductive sheet.

**Claim 67 (Previously Presented):** An antenna as claimed in claim 1, wherein said first electrically conductive member and said second electrically conductive member are electrically conductive sheets.

**Claim 68 (Currently Amended):** An antenna for transmitting a radio frequency signal, comprising:

a first electrically conductive member;

a second electrically conductive member spaced a first distance apart from said first electrically-electrically conductive member, said first conductive member contained in a first plane and said second conductive member contained in a second plane;

an axially extending leg electrically connected to said first electrically conductive member and said second electrically conductive member, said axially extending leg being electrically conductive; and

a mechanical register at least partially received between said first electrically conductive member and said second electrically conductive member in an area defined between the first plane and the second plane.

**Claim 69 (Previously Presented):** An antenna as claimed in claim 68, wherein one of said first electrically conductive member and said second electrically conductive member is an electrically conductive sheet.

**Claim 70 (Previously Presented):** An antenna as claimed in claim 68, wherein said first electrically conductive member and said second electrically conductive member are electrically conductive sheets.